FOREIGN EP0936560

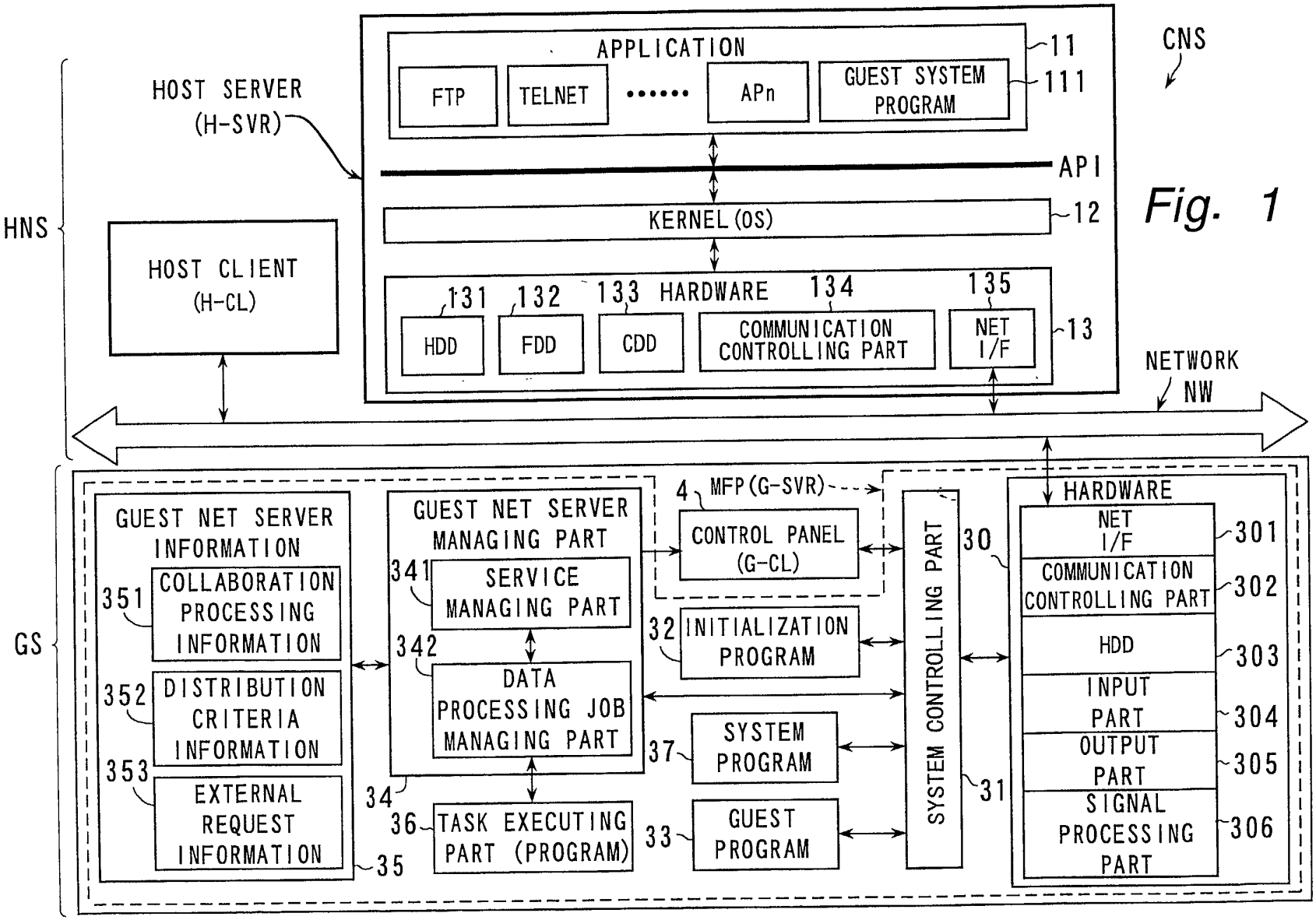


Fig. 1

Fig. 2

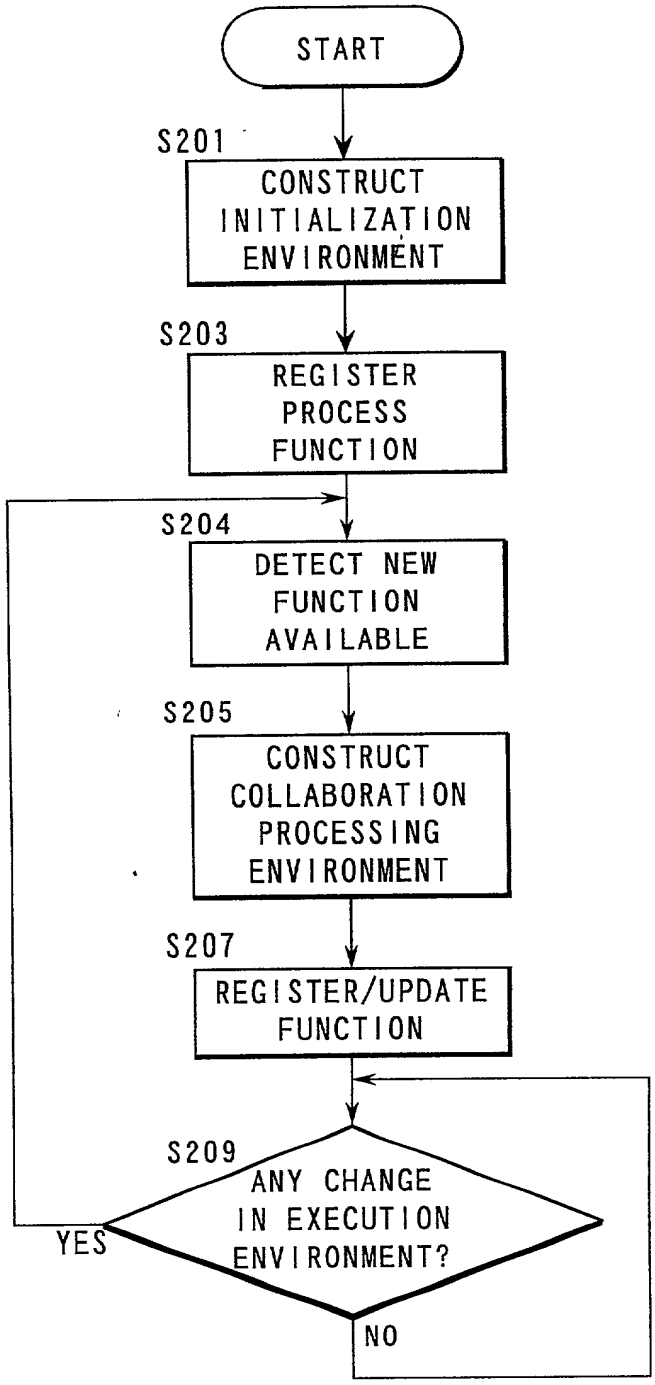

START
S201
CONSTRUCT INITIALIZATION ENVIRONMENT
S203
REGISTER PROCESS FUNCTION
S204
DETECT NEW FUNCTION AVAILABLE
S205
CONSTRUCT COLLABORATION PROCESSING ENVIRONMENT
S207
REGISTER/UPDATE FUNCTION
S209
ANY CHANGE IN EXECUTION ENVIRONMENT?
YES
NO

Fig. 3A

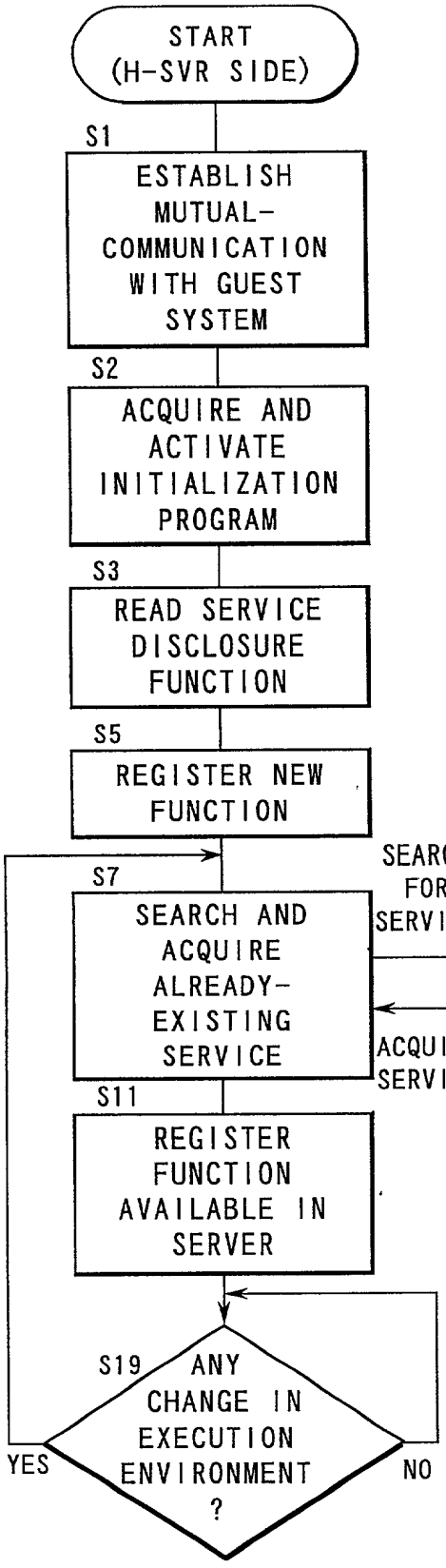
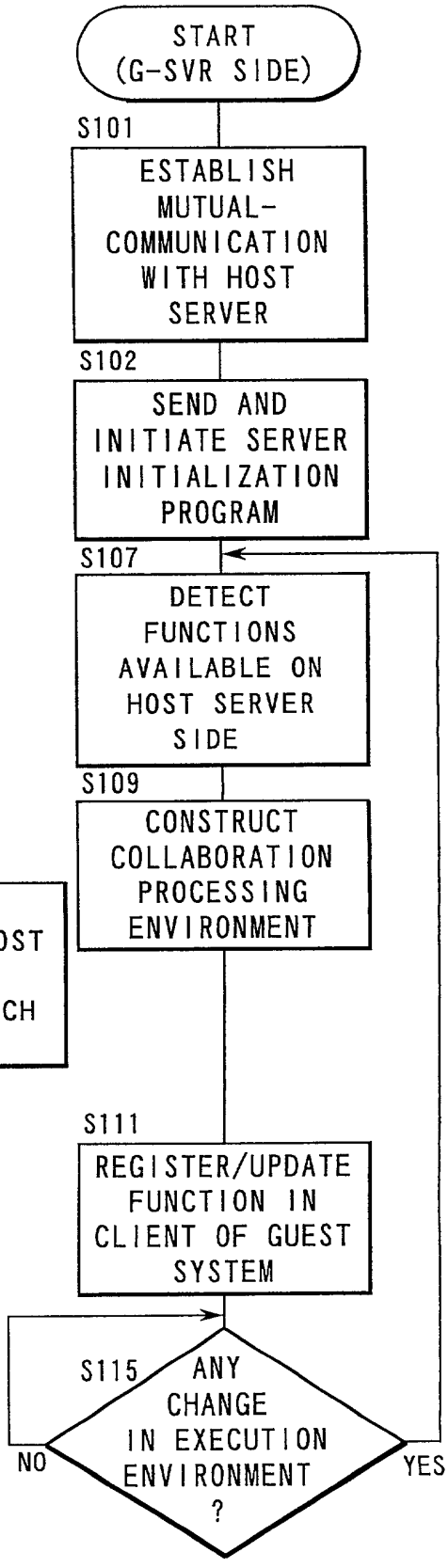

START
(H-SVR SIDE)
S1
ESTABLISH MUTUAL-COMMUNICATION WITH GUEST SYSTEM
S2
ACQUIRE AND ACTIVATE INITIALIZATION PROGRAM
S3
READ SERVICE DISCLOSURE FUNCTION
S5
REGISTER NEW FUNCTION
S7
SEARCH AND ACQUIRE ALREADY-EXISTING SERVICE
SEARCH FOR SERVICE
ACQUIRE SERVICE
S9
SEARCH FOR SERVICE IN HOST NETWORK BY SERVICE SEARCH FUNCTION
S11
REGISTER FUNCTION AVAILABLE IN SERVER
S19
ANY CHANGE IN EXECUTION ENVIRONMENT ?
YES
NO

Fig. 3B


START
(G-SVR SIDE)
S101
ESTABLISH MUTUAL-COMMUNICATION WITH HOST SERVER
S102
SEND AND INITIATE SERVER INITIALIZATION PROGRAM
S107
DETECT FUNCTIONS AVAILABLE ON HOST SERVER SIDE
S109
CONSTRUCT COLLABORATION PROCESSING ENVIRONMENT
S111
REGISTER/UPDATE FUNCTION IN CLIENT OF GUEST SYSTEM
S115
ANY CHANGE IN EXECUTION ENVIRONMENT ?
NO
YES

TOSHIBA CORPORATION

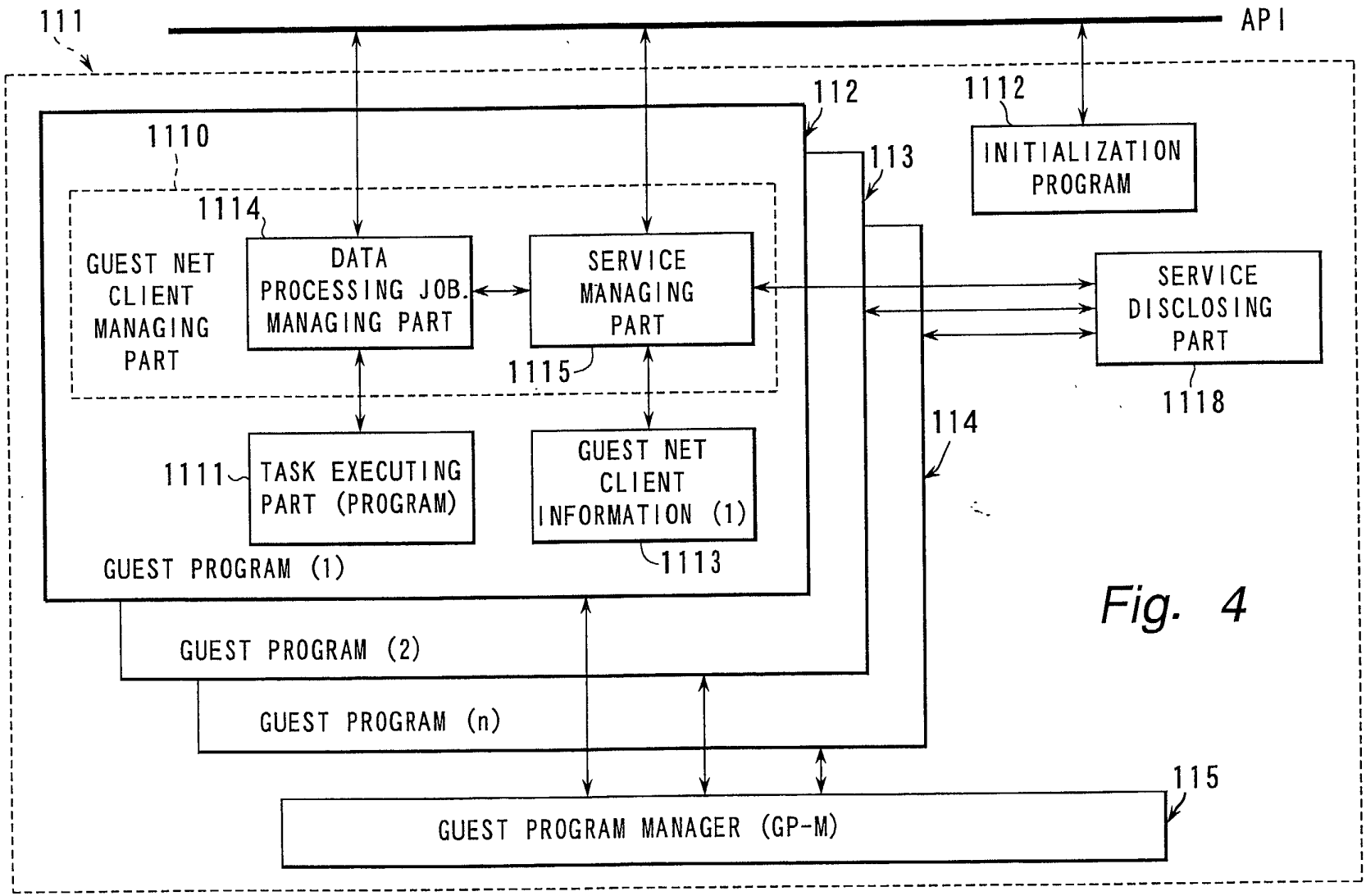


Fig. 4

(A) COLLABORATION PROCESSING INFORMATION 351

JOB 1	PROCEDURE TO PROCESS: PROCESS 1 ADDRESSEE INFORMATION:
JOB 2	PROCEDURE TO PROCESS: PROCESS 1, EXTERNAL REQUEST 1, PROCESS 2 ADDRESSEE INFORMATION : SERVER INFORMATION, PROGRAM NUMBER, VERSION INFORMATION, APPLICABLE RESOURCE INFORMATION
JOB 3	PROCEDURE TO PROCESS : PROCESS 1, (EXTERNAL REQUEST 2), PROCESS 2 ADDRESSEE INFORMATION : SERVER INFORMATION, PROGRAM NUMBER, VERSION INFORMATION, APPLICABLE RESOURCE INFORMATION
JOB 4	PROCEDURE TO PROCESS : PROCESS 1, PROCESS 2, PROCESS 3 ADDRESSEE INFORMATION : SERVER INFORMATION, PROGRAM NUMBER, VERSION INFORMATION, APPLICABLE RESOURCE INFORMATION
.....	
JOB N	PROCEDURE TO PROCESS : PROCESS 1, EXTERNAL REQUEST N ADDRESSEE INFORMATION : SERVER INFORMATION, PROGRAM NUMBER, VERSION INFORMATION, APPLICABLE RESOURCE INFORMATION

(B) DISTRIBUTION CRITERIA INFORMATION

MFP BASIC FUNCTION	MFP BASIC PROCESSING	EXTERNALLY AVAILABLE FUNCTION
FUNCTION 1	PROCESS 1	PROCESS A
FUNCTION 2	PROCESS 2	PROCESS B
FUNCTION3	PROCESS 3	PROCESS C
↓	↓	↓
FUNCTION n	PROCESS n	PROCESS Z
VERSION INFORMATION 1	VERSION INFORMATION 2	VERSION INFORMATION 3

352

Fig. 5

DOCKET 20060260

Fig. 6

EXTERNAL REQUEST INFORMATION

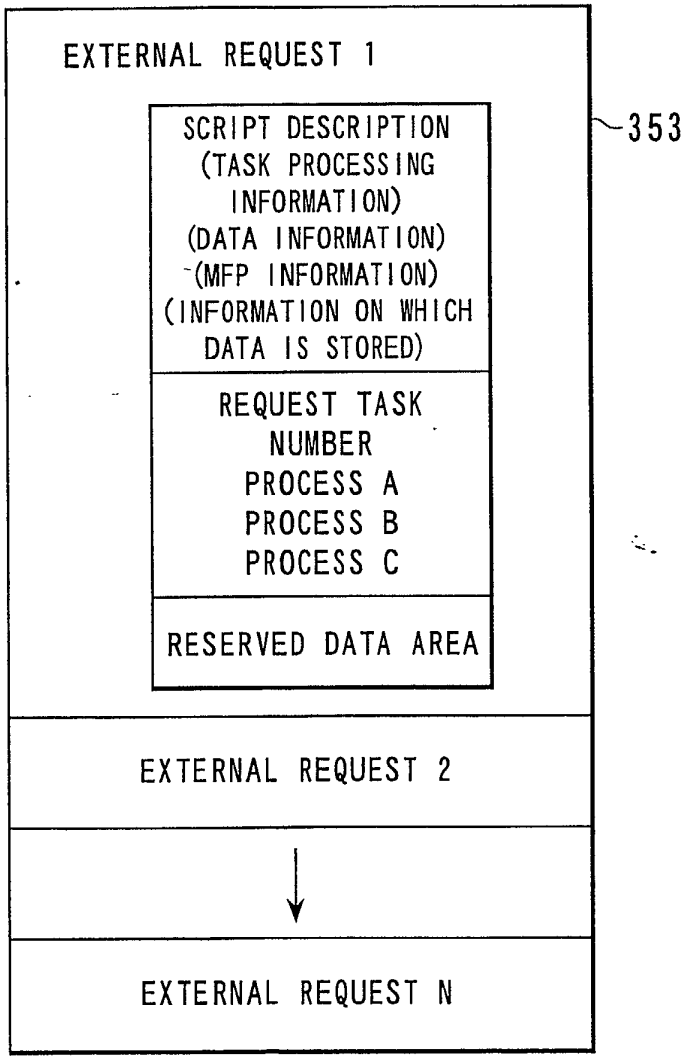


Fig. 7

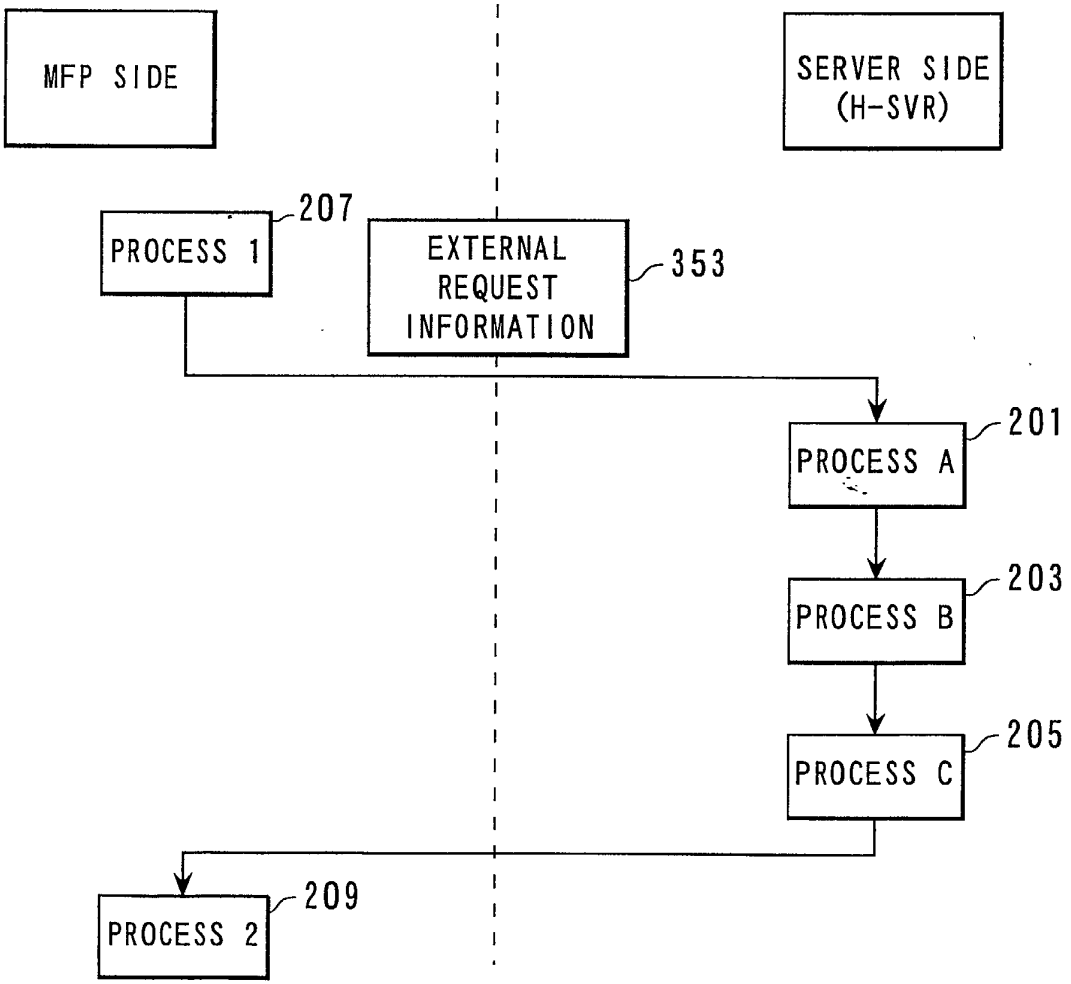

MFP SIDE
SERVER SIDE (H-SVR)
PROCESS 1
207
EXTERNAL REQUEST INFORMATION
353
PROCESS A
201
PROCESS B
203
PROCESS C
205
PROCESS 2
209

Fig. 8

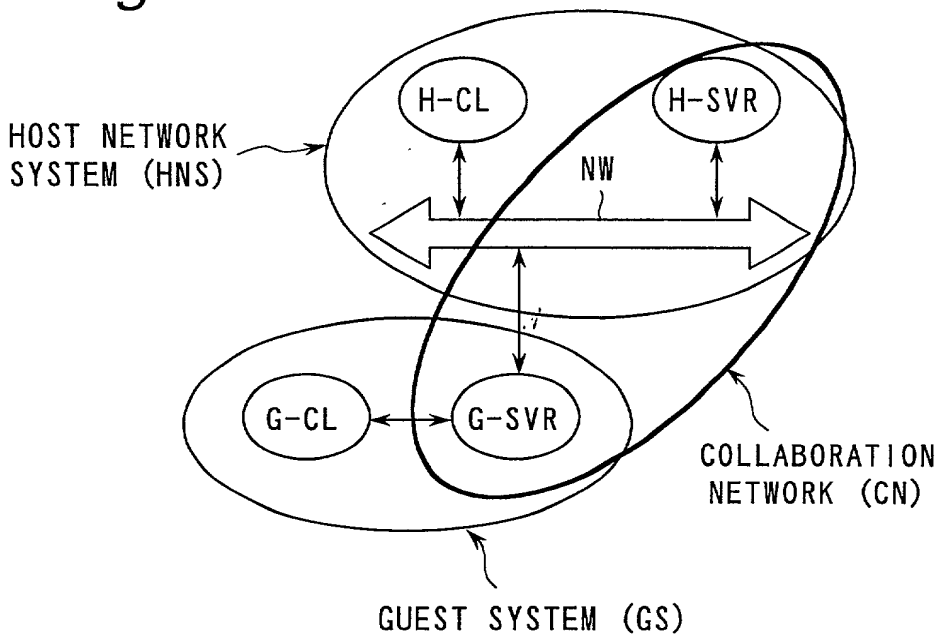
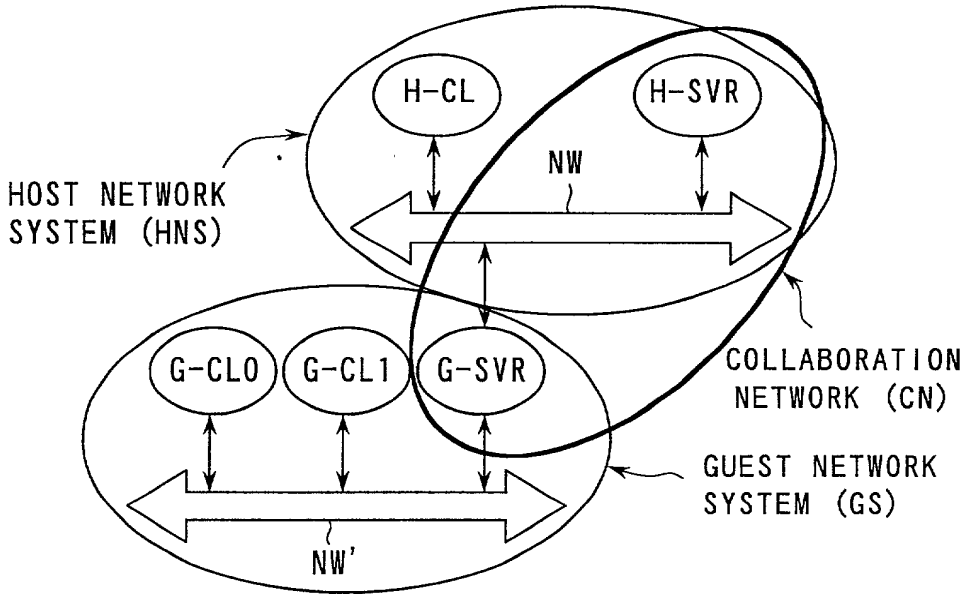

H-CL
H-SVR
HOST NETWORK SYSTEM (HNS)
NW
G-CL
G-SVR
COLLABORATION NETWORK (CN)
GUEST SYSTEM (GS)

Fig. 9


H-CL
H-SVR
HOST NETWORK SYSTEM (HNS)
NW
G-CL0
G-CL1
G-SVR
COLLABORATION NETWORK (CN)
GUEST NETWORK SYSTEM (GS)
NW'

FOREIGN EDITION

Fig. 10

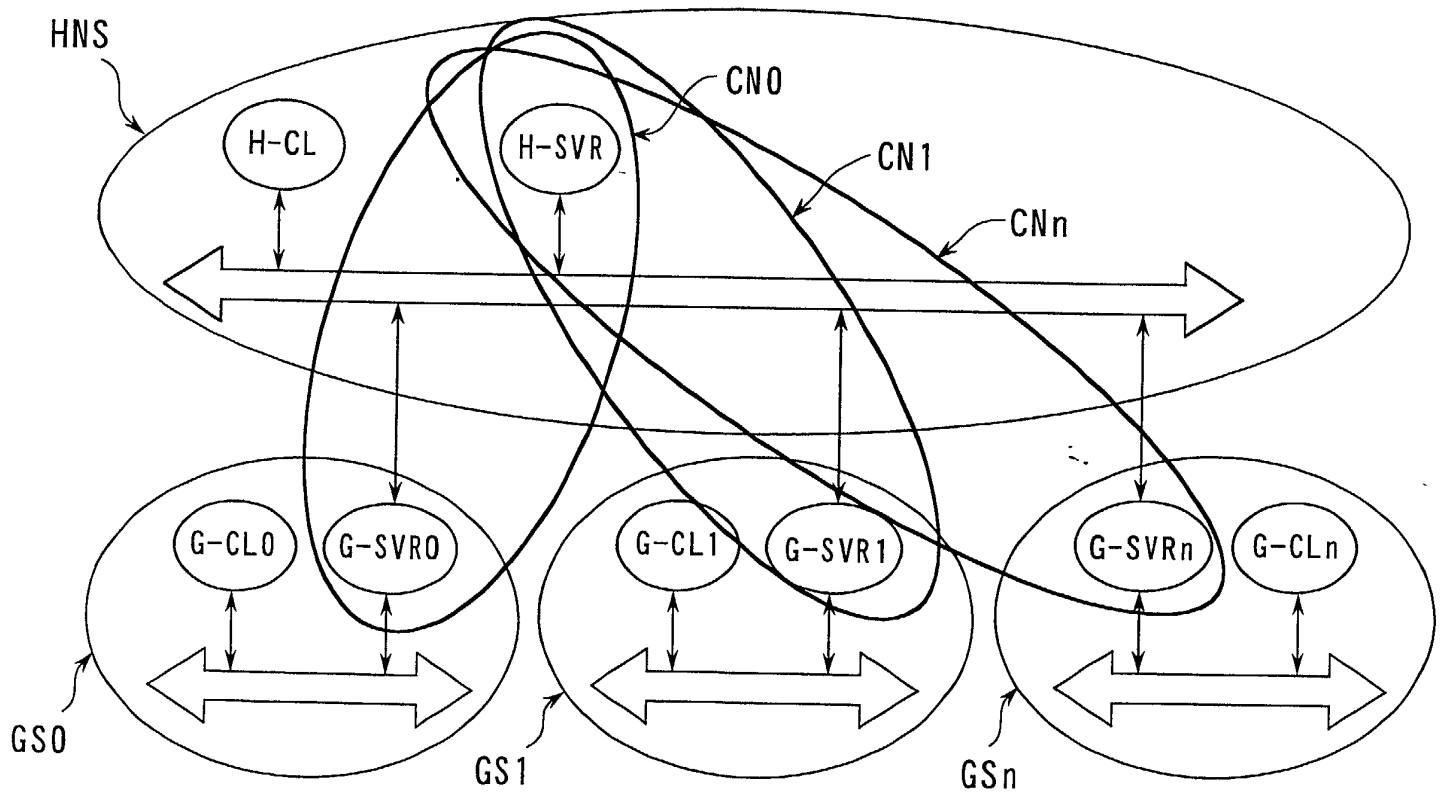


Fig. 11

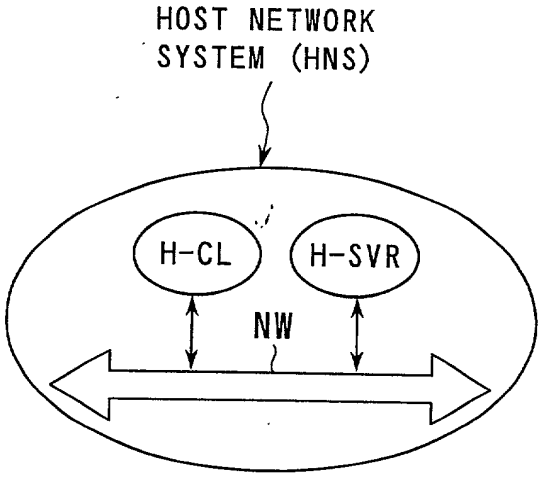
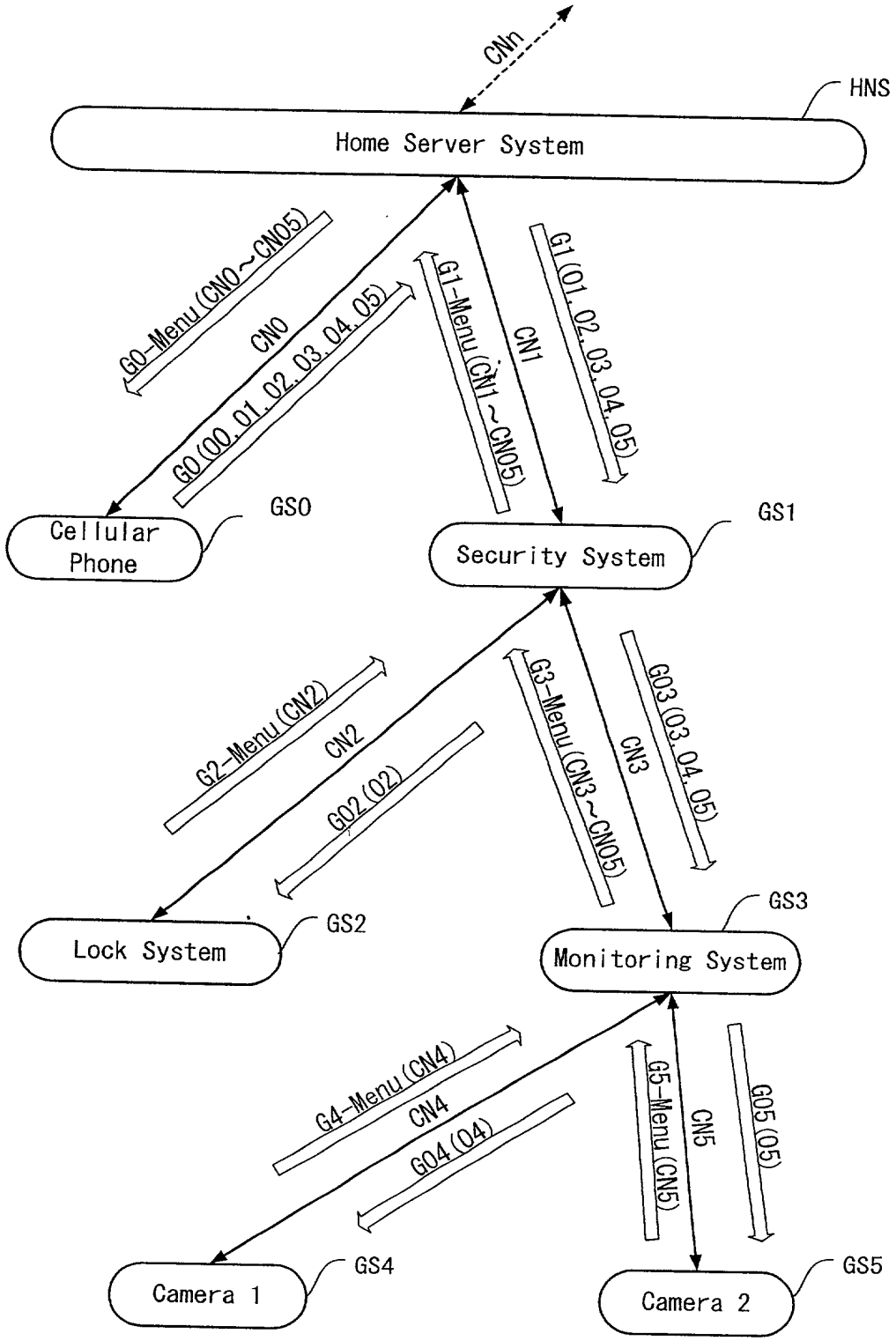


Fig. 12


CNn
HNS
Home Server System
G0-Menu(CN0~CN05)
CN0
G0(00,01,02,03,04,05)
G1-Menu(CN1~CN05)
CN1
G1(01,02,03,04,05)
GS0
Cellular Phone
GS1
Security System
G2-Menu(CN2)
CN2
G02(02)
G3-Menu(CN3~CN05)
CN3
G03(03,04,05)
GS2
Lock System
GS3
Monitoring System
G4-Menu(CN4)
CN4
G04(04)
G5-Menu(CN5)
CN5
G05(05)
GS4
Camera 1
GS5
Camera 2